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with tubercles and is even thicker than that of *P. helianthi*. The stalk is rather evanescent; its length differing on the different host plants. On *Vernonia fasciculata*, as has been stated by Professor Burrill, the length of the stalk is about four times that of the spore; on *Vernonia Baldwinii* it is much shorter, attaining only once or one and a half times the length of the spore. We might, therefore, distinguish two varieties of *P. vernonia* and designate the one on *Vernonia fasciculata* as var. *longipes*, the other on *Vernonia Baldwinii* as var. *brevipes*. I have not been able to examine this fungus on other host plants.

LEIPSIC, GERMANY.

NEW SPECIES OF UREDINEÆ.

By J. B. ELLIS and S. M. TRACY.

PUCCINIA HEMIZONIÆ, n. s. II, III.—Amphigenous; spots yellowish, rather large; sori small, scattered or sometimes confluent, surrounded by the remains of the ruptured epidermis; uredospores subglobose to oval, very slightly echinulate, thick walled, dark colored, 16–2 by 24–30 μ ; teleutospores obovate, occasionally three-celled, slightly constricted, apex much thickened, rounded or blunt pointed; epispore smooth, 22–24 by 45–48 μ ; lower segment lighter colored and tapering below to the flexuous, hyaline pedicel which is more than double the length of the spore. On *Hemizonia truncata*, Oregon.

ÆCIDIDIUM OLDENLANDIANUM, n. s.—Hypophyllous; æcidia few in a cluster, 80–100 μ in length, the mouth but little split and not recurved; spores globose or sometimes slightly angled; epispore thin, smooth, bright yellow; 14–16 μ . On *Houstonia carulea*, Starkville, Mississippi, April, 1888. Although the name “Oldenlandia” is obsolete as applied to this host, the name given to this *Æcididium* on account of the name “houstoniatum” being already occupied by the *Æcididium houstoniatum*, Schw., from which this differs in the longer, narrower æcidia, smooth spores, and spermogonia rare or wanting.

ÆCIDIDIUM MALVASTRI, n. s.—Hypophyllous; spots light yellow; æcidia clustered, somewhat circinate, short, the spreading border rather narrow, spores subglobose or ovate, epispore thin, minutely tuberculate; 15–18 by 18–22 μ ; spermogonia unknown. On *Malvastrum Munroanum*, Albuquerque, New Mexico, Tracy, June, 1887.

NEWFIELD, NEW JERSEY.